

ABSTRACT

A cap device for bottles, in which a valve means is stably placed at a desired position in a neck of the bottle, without being undesirably displaced, and which allows an additive and a material to be completely separately stored in the cap device and the bottle, respectively, such that the additive is not undesirably added to the bottled material. The cap device has a cap body tightened to an externally threaded mouth of a bottle, with a funnel part integrally formed in the cap body to discharge an additive from the cap body into the bottle through a lower end thereof. A cap cover is assembled with the cap body to cover an open upper end of the cap body while defining a cavity inside both the cap body and the cap cover to contain the additive in the cavity. The cap device also has a valve means for opening or closing the lower end of the funnel part of the cap body in accordance with a rotating action of the cap body relative to the externally threaded mouth of the bottle. The valve means comprises a valve member having a conical valve part to be brought into close contact with or spaced apart from the lower end of the funnel part of the cap body, thus closing or opening the lower end of the funnel part. A plurality of radial ribs extend outward from an external surface of the conical valve part in radial directions. A ring is integrated with outside ends of the radial ribs so as to be supported on an inner surface of a neck of the bottle.